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OIPE IAP55 OCT 24 2005 PATENT & TRADEMARK OFFICE

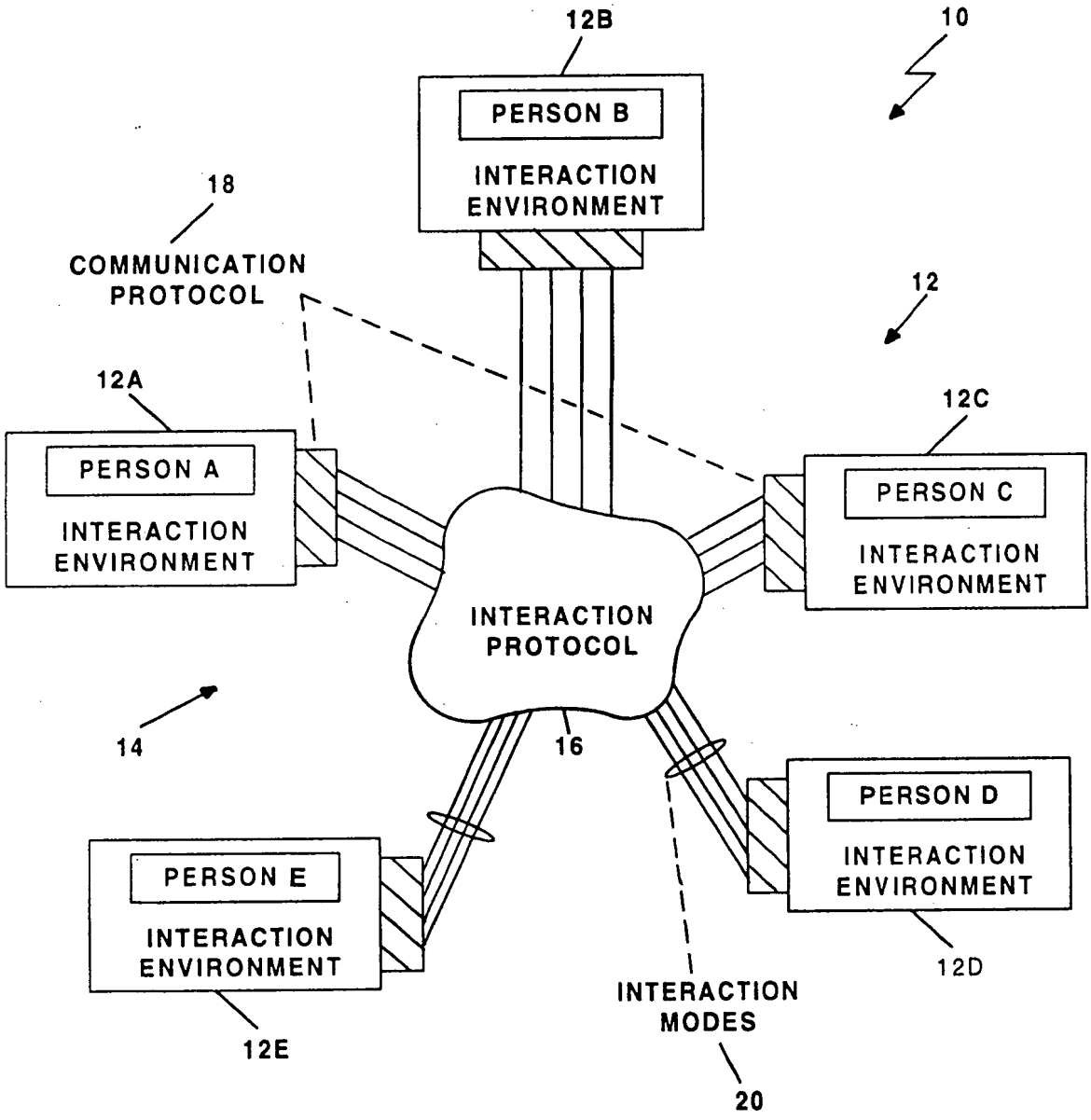

Fig. 1

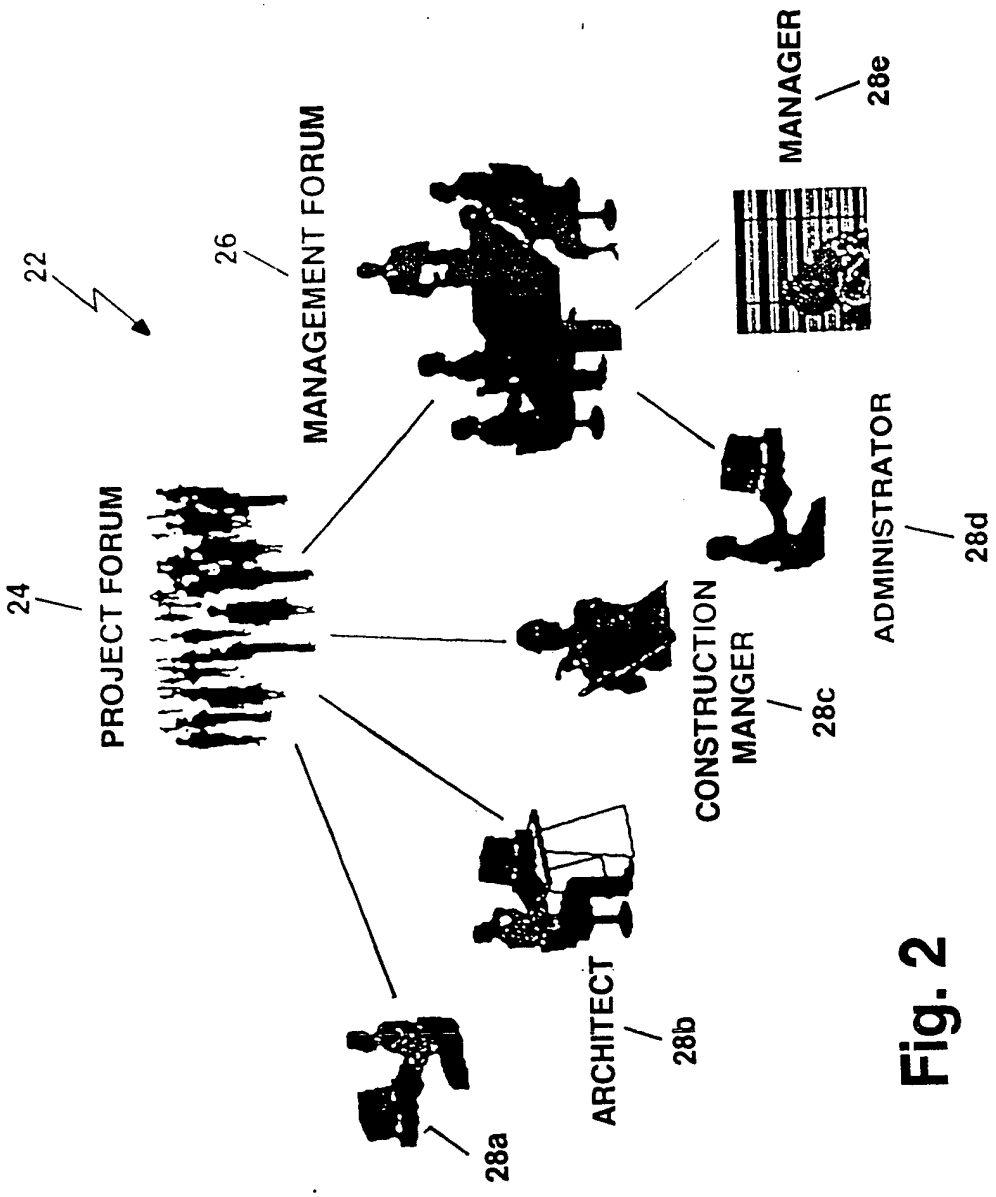
22
24
PROJECT FORUM
26
MANAGEMENT FORUM
MANAGER
28e
ADMINISTRATOR
28d
CONSTRUCTION
MANGER
28c
ARCHITECT
28b
28a

Fig. 2

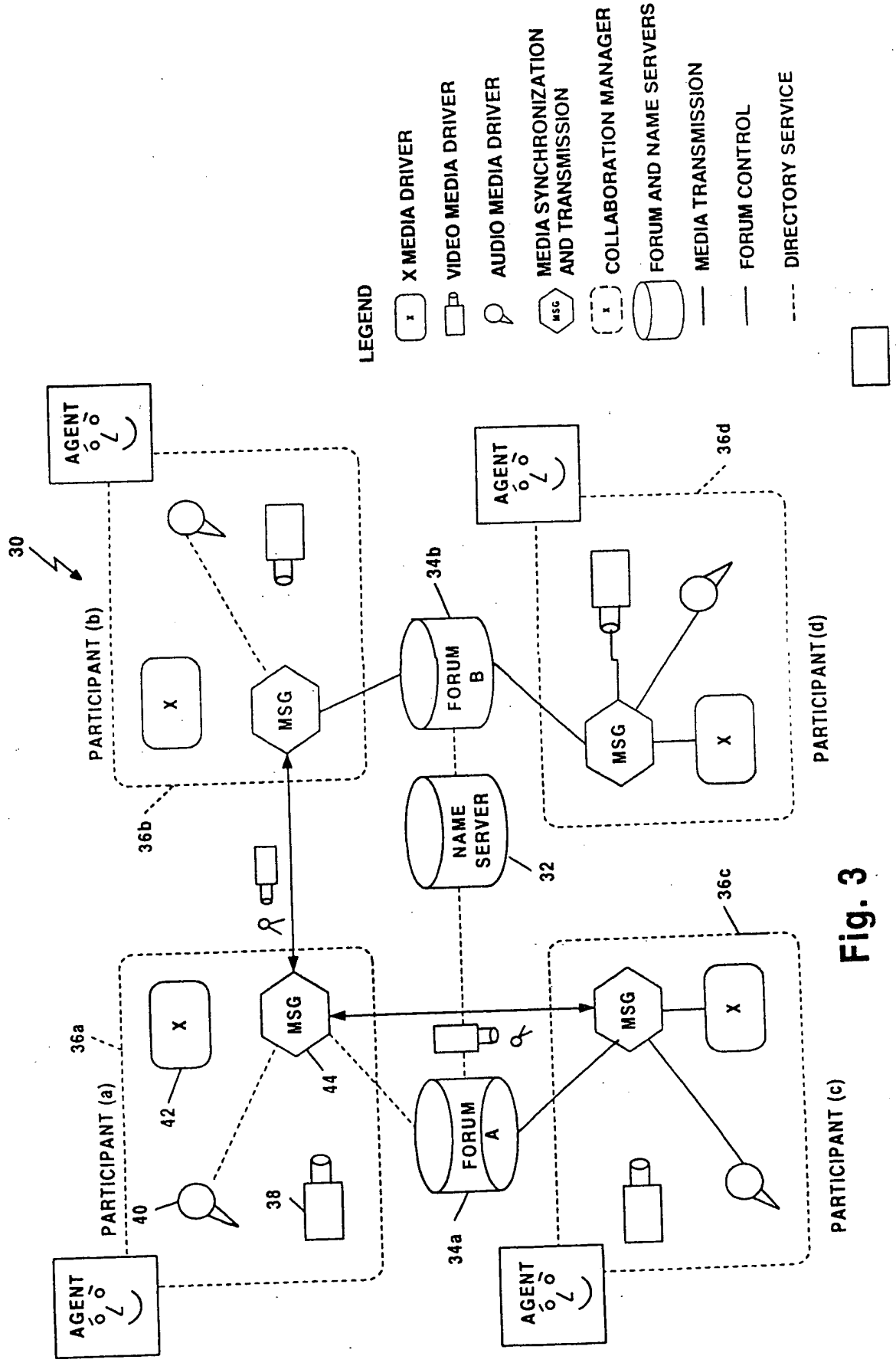
LEGEND
X MEDIA DRIVER
VIDEO MEDIA DRIVER
AUDIO MEDIA DRIVER
MEDIA SYNCHRONIZATION AND TRANSMISSION
COLLABORATION MANAGER
FORUM AND NAME SERVERS
MEDIA TRANSMISSION
FORUM CONTROL
DIRECTORY SERVICE
30
AGENT
PARTICIPANT (a)
PARTICIPANT (b)
PARTICIPANT (c)
PARTICIPANT (d)
36a
36b
36c
36d
X
MSG
FORUM A
FORUM B
NAME SERVER
32
34a
34b
38
40
42
44

Fig. 3

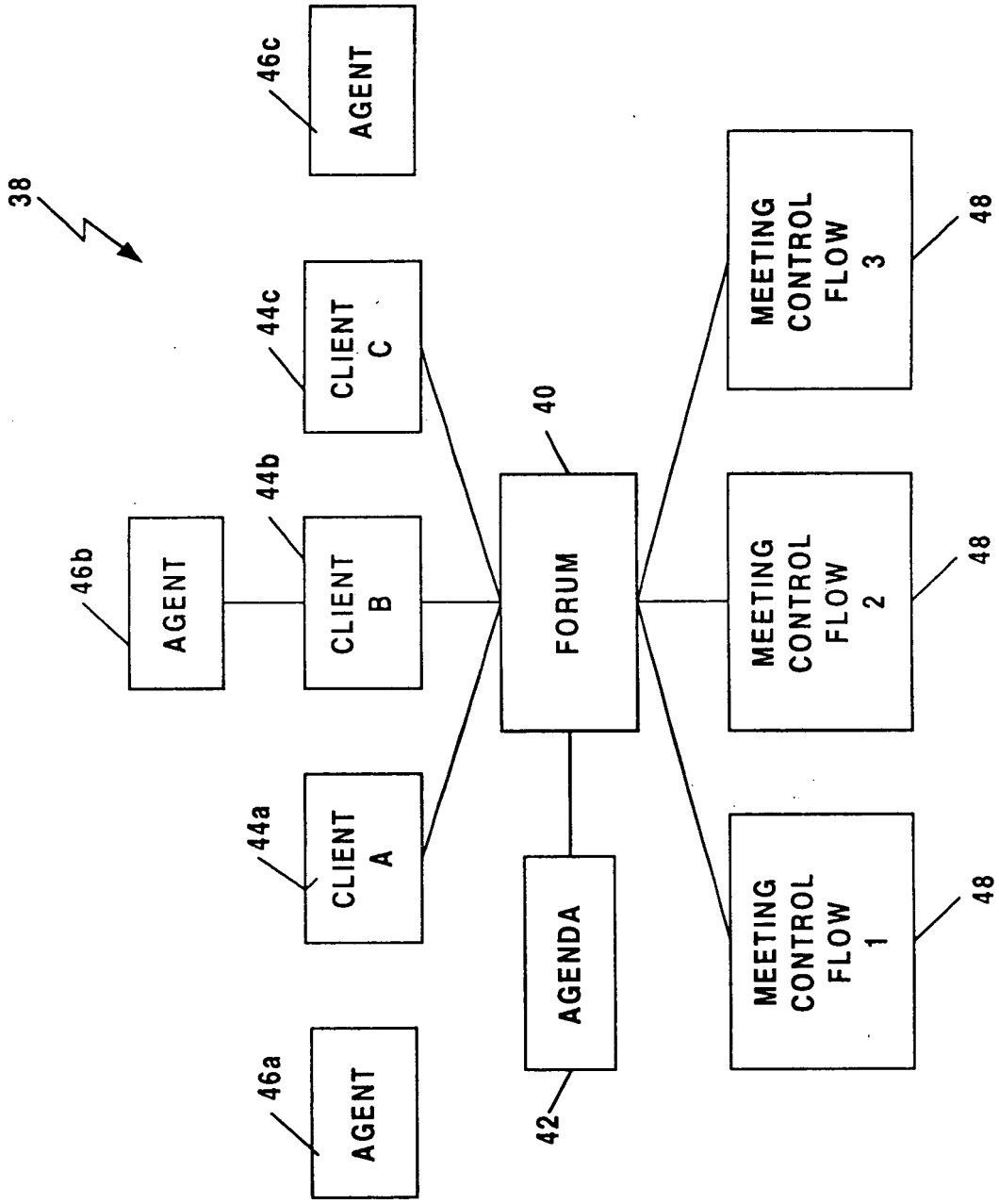
38
46c
AGENT
44c
CLIENT C
46b
AGENT
44b
CLIENT B
44a
CLIENT A
46a
AGENT
40
FORUM
AGENDA
42
MEETING CONTROL FLOW 3
MEETING CONTROL FLOW 2
MEETING CONTROL FLOW 1
48
48
48

Fig. 4

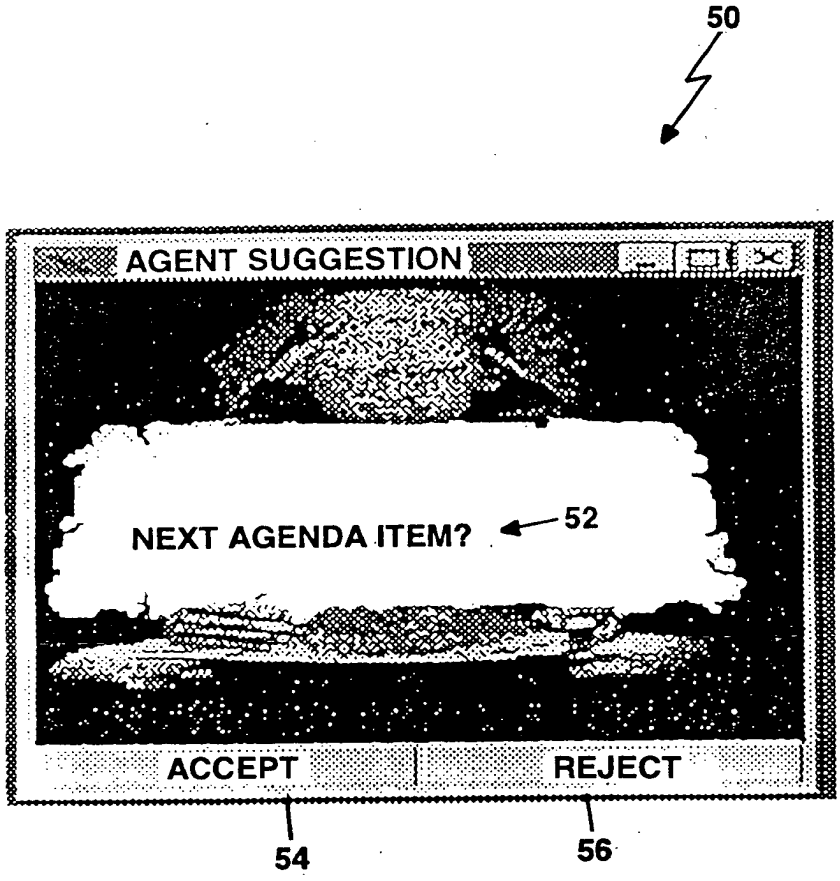

Fig. 5

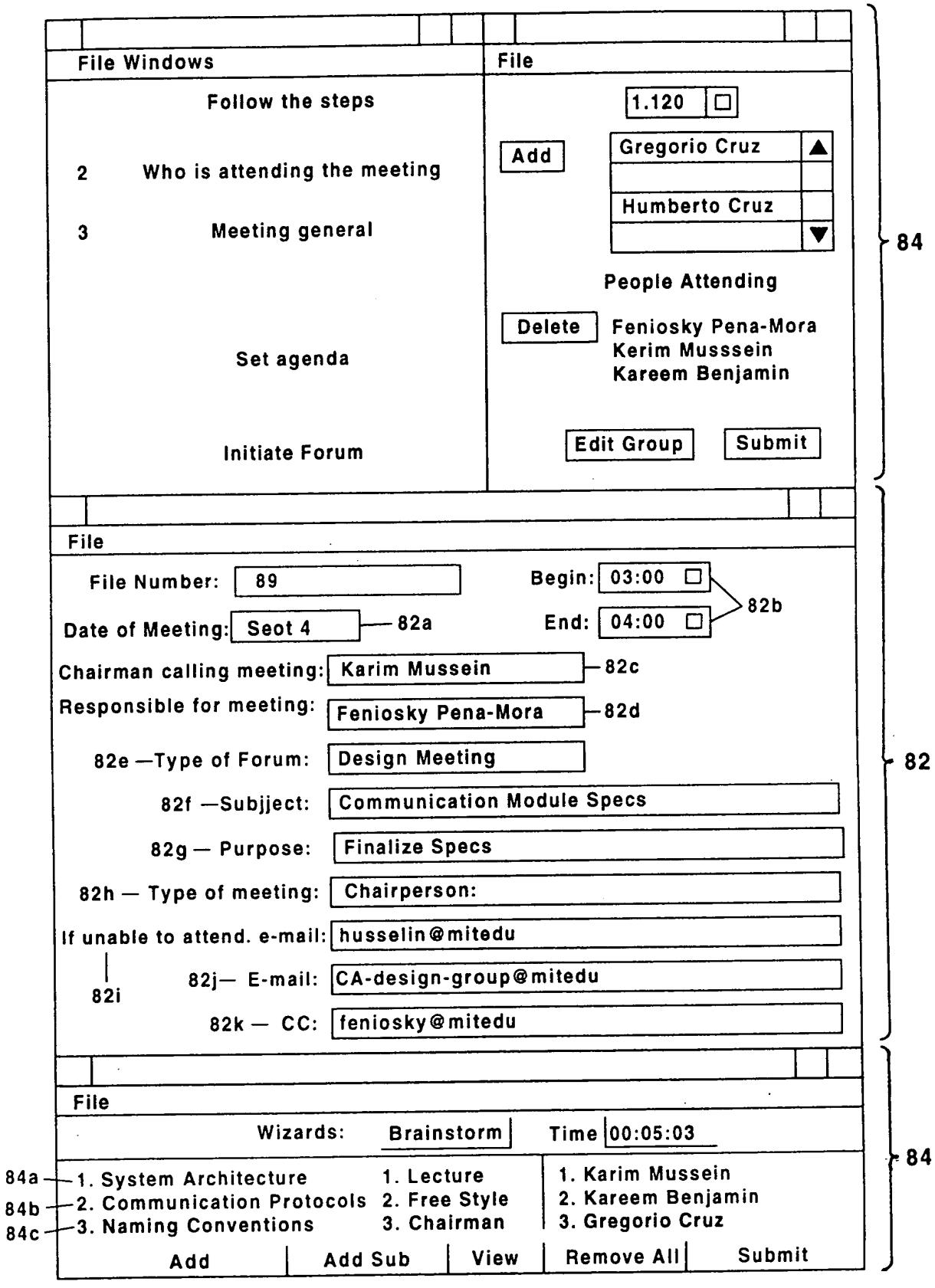
File Windows
File
Follow the steps
1.120
Add
Gregorio Cruz
2 Who is attending the meeting
Humberto Cruz
3 Meeting general
84
People Attending
Delete
Feniosky Pena-Mora
Kerim Musssein
Kareem Benjamin
Set agenda
Initiate Forum
Edit Group
Submit
File
File Number: 89
Begin: 03:00
82b
End: 04:00
Date of Meeting: Seot 4
82a
Chairman calling meeting: Karim Mussein
82c
Responsible for meeting: Feniosky Pena-Mora
82d
82e —Type of Forum: Design Meeting
82
82f —Subjject: Communication Module Specs
82g — Purpose: Finalize Specs
82h — Type of meeting: Chairperson:
If unable to attend. e-mail: husselin@mitedu
82i
82j— E-mail: CA-design-group@mitedu
82k — CC: feniosky@mitedu
File
Wizards: Brainstorm
Time 00:05:03
84
84a 1. System Architecture
84b 2. Communication Protocols
84c 3. Naming Conventions
1. Lecture
2. Free Style
3. Chairman
1. Karim Mussein
2. Kareem Benjamin
3. Gregorio Cruz
Add
Add Sub
View
Remove All
Submit

Fig. 6

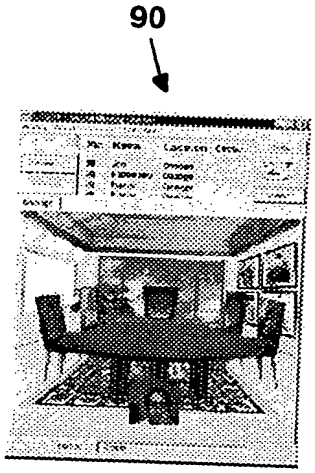

Fig. 7

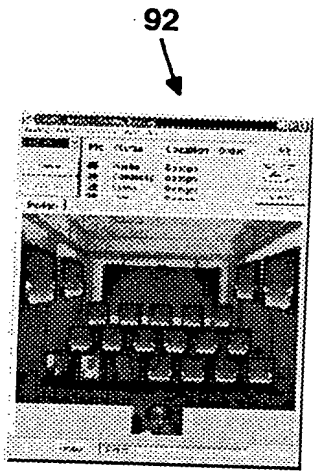

Fig. 7A

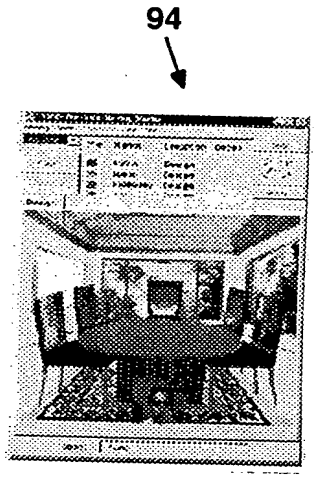

Fig. 7B

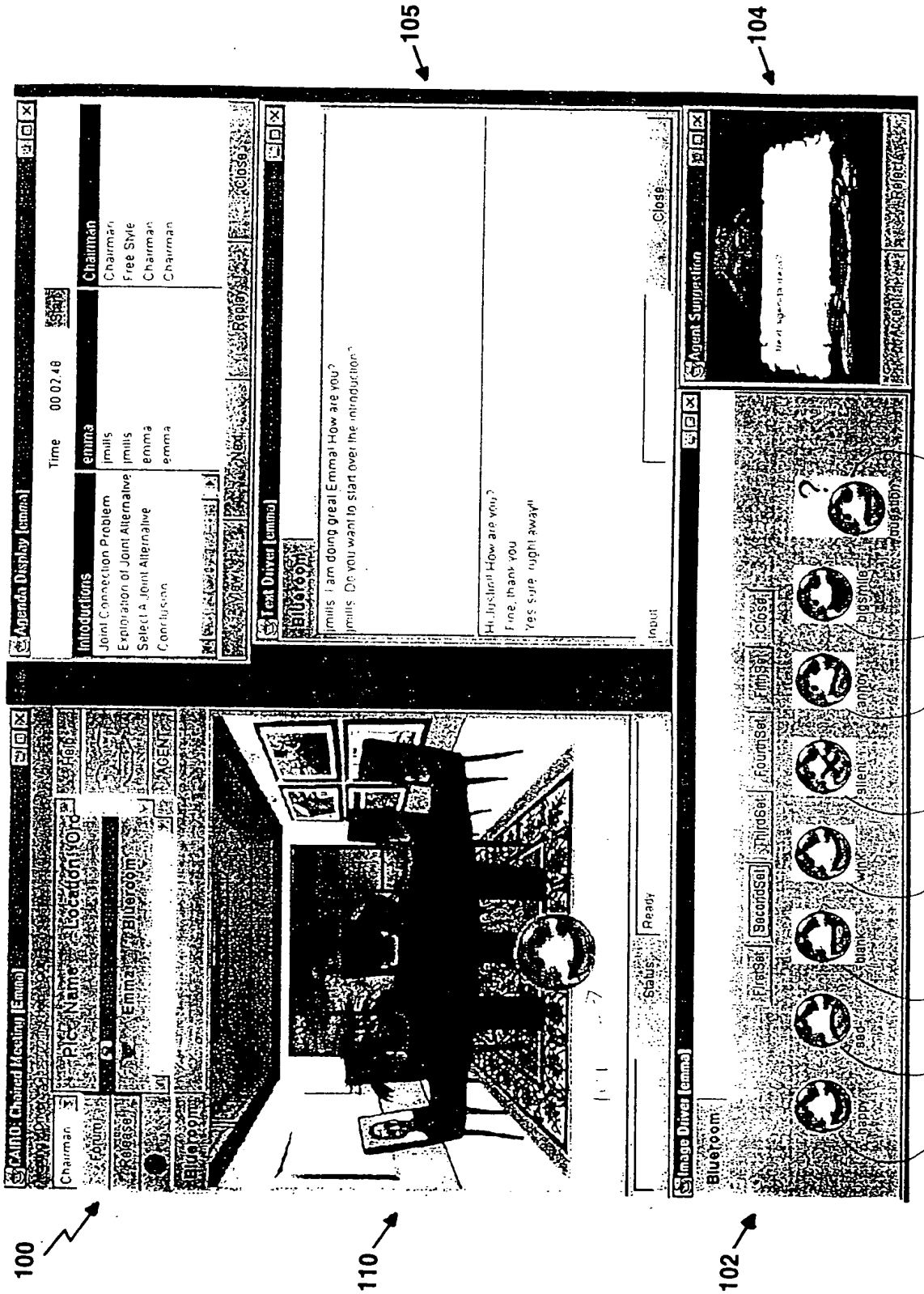
105
104
100
110
102
102a
102b
102c
102d
102e
102f
102g
102h
Agenda Display [emma]
Text Driver [emma]
Agent Suggestion
Image Driver [emma]
Bluetoom
Introductions
Joint Connection Problem
Exploration of Joint Alternative
Select A Joint Alternative
Conclusion
emma
jmills
Chairman
Free Style
Time
00:02:48
Close
Input
Status:
Ready
FirstSet
SecondSet
ThirdSet
FourthSet
happy
sad
blank
wink
silent
angry
bigsmile
?

Fig. 8

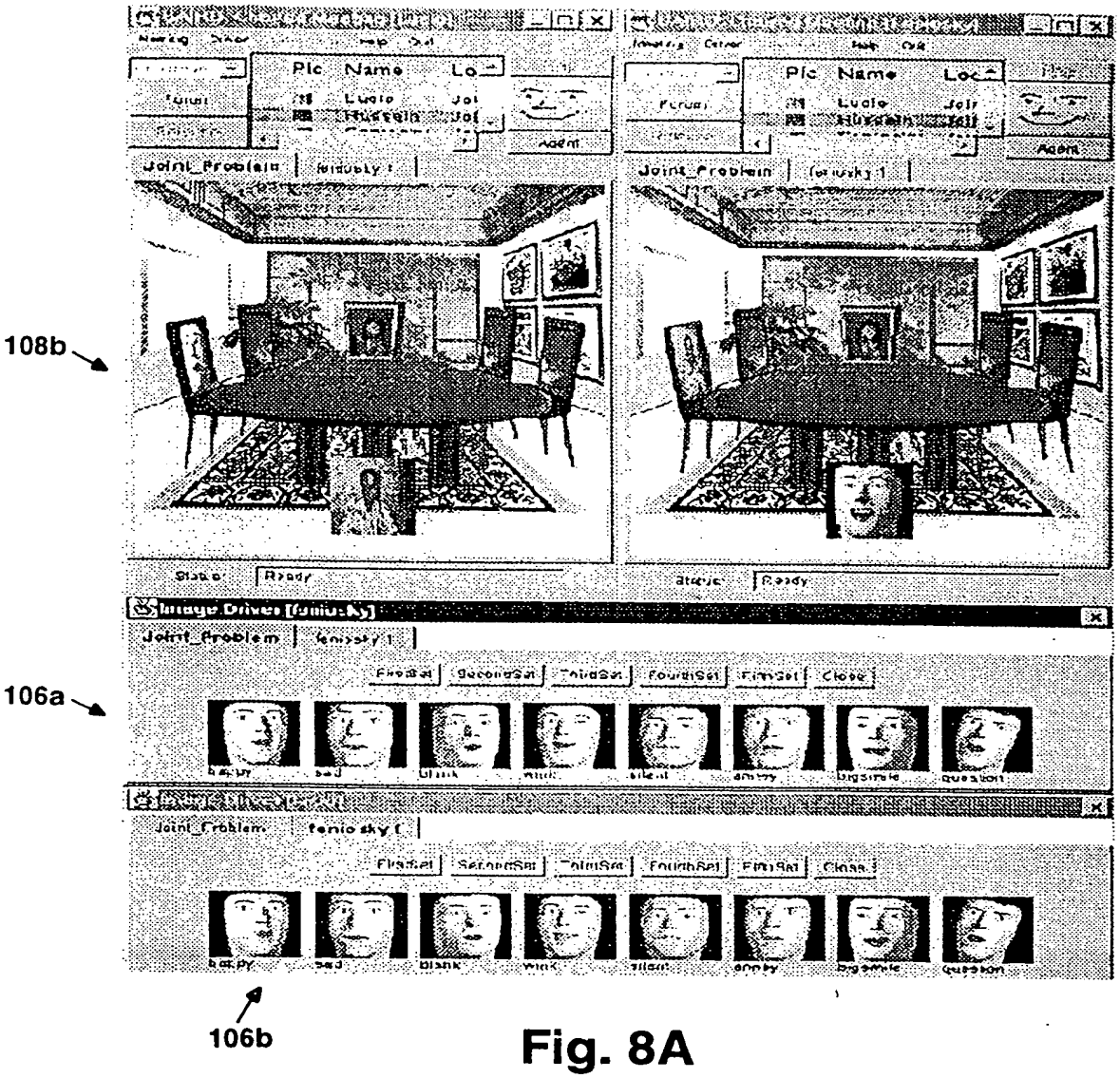

Fig. 8A

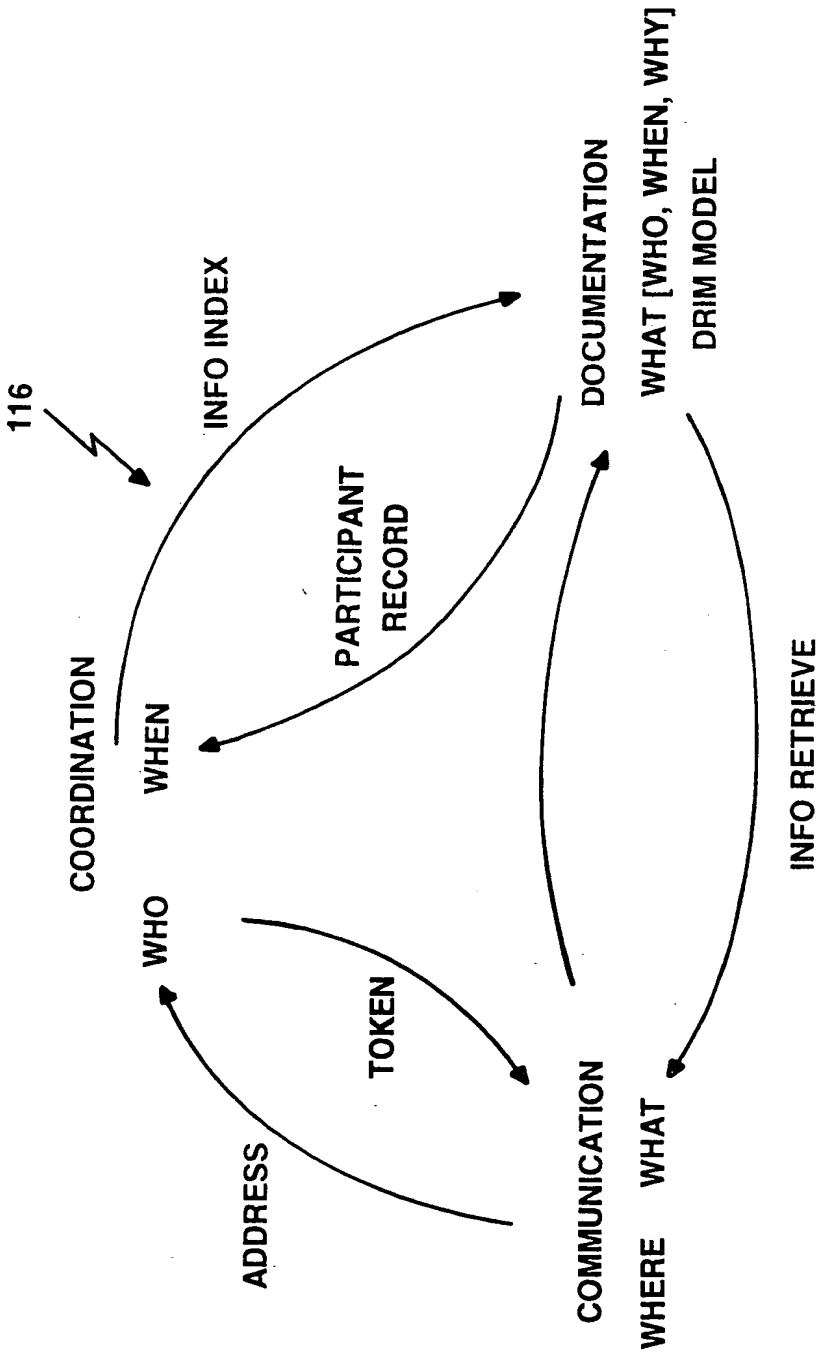
116
INFO INDEX
COORDINATION
WHEN
PARTICIPANT
RECORD
DOCUMENTATION
WHAT [WHO, WHEN, WHY]
DRIM MODEL
INFO RETRIEVE
WHO
TOKEN
ADDRESS
COMMUNICATION
WHERE
WHAT

Fig. 9

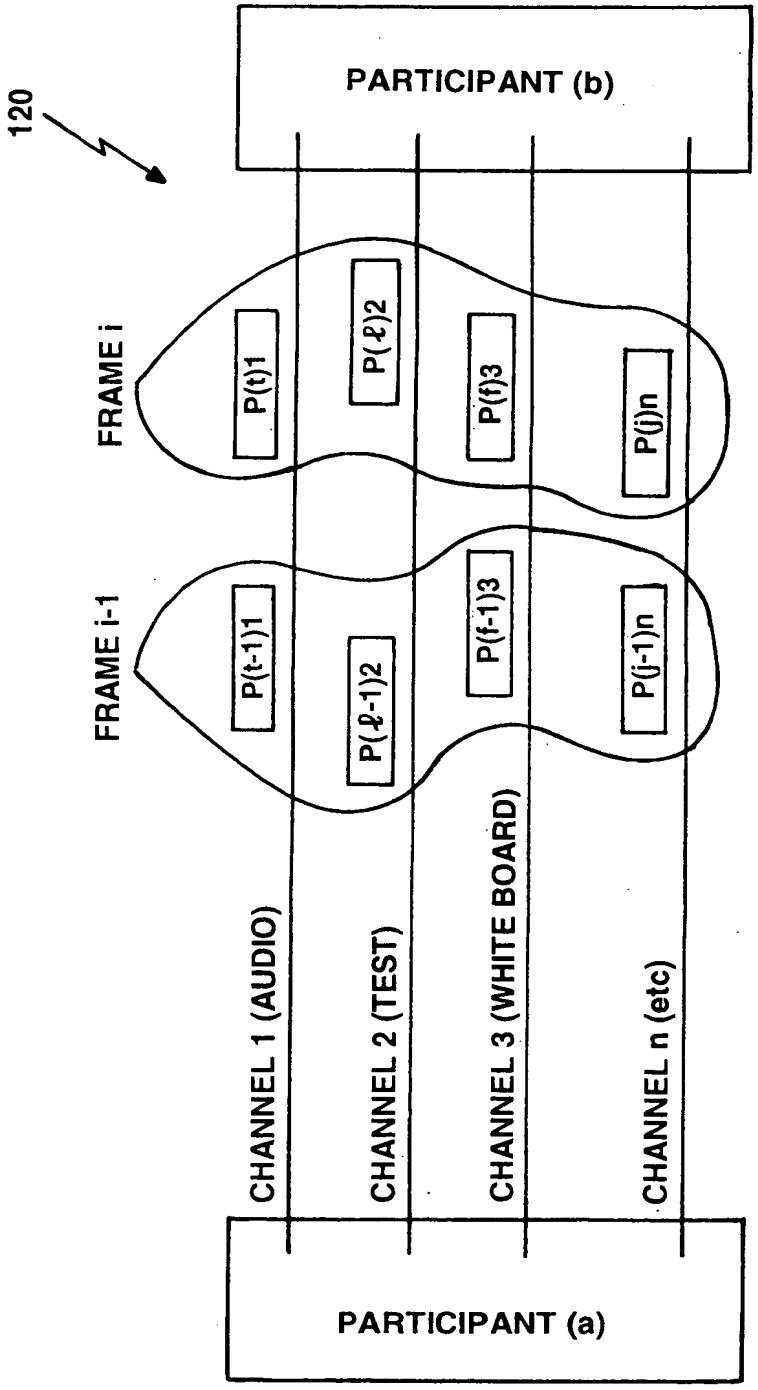
120
PARTICIPANT (b)
FRAME i
P(t)1
P(ℓ)2
P(f)3
P(j)n
FRAME i-1
P(t-1)1
P(ℓ-1)2
P(f-1)3
P(j-1)n
CHANNEL 1 (AUDIO)
CHANNEL 2 (TEST)
CHANNEL 3 (WHITE BOARD)
CHANNEL n (etc)
DATA PACKETS
PARTICIPANT (a)

Fig. 10

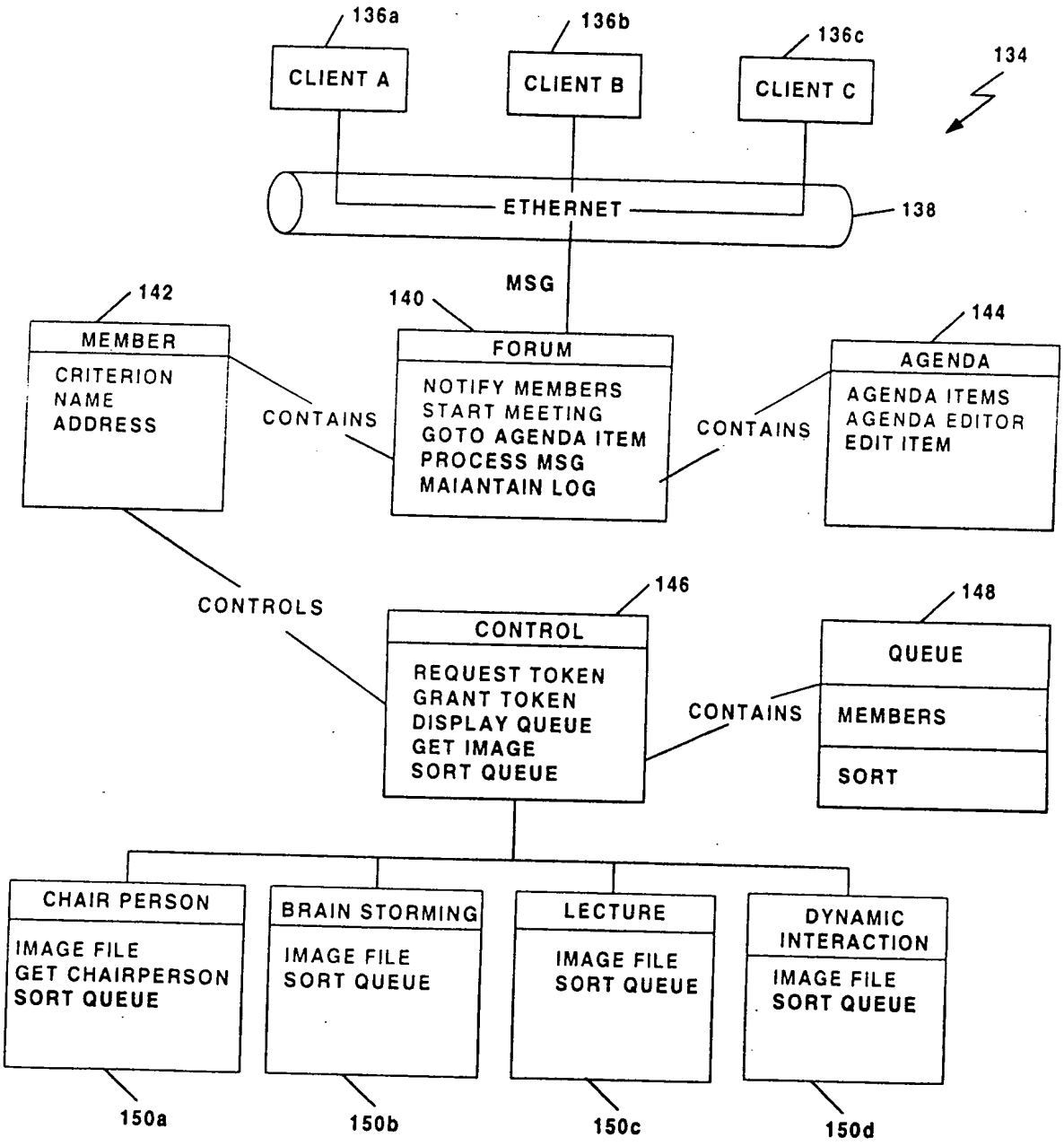
136a
136b
136c
134
CLIENT A
CLIENT B
CLIENT C
ETHERNET
138
MSG
142
140
144
MEMBER
CRITERION
NAME
ADDRESS
CONTAINS
FORUM
NOTIFY MEMBERS
START MEETING
GOTO AGENDA ITEM
PROCESS MSG
MAIANTAIN LOG
CONTAINS
AGENDA
AGENDA ITEMS
AGENDA EDITOR
EDIT ITEM
CONTROLS
146
148
CONTROL
REQUEST TOKEN
GRANT TOKEN
DISPLAY QUEUE
GET IMAGE
SORT QUEUE
CONTAINS
QUEUE
MEMBERS
SORT
CHAIR PERSON
IMAGE FILE
GET CHAIRPERSON
SORT QUEUE
BRAIN STORMING
IMAGE FILE
SORT QUEUE
LECTURE
IMAGE FILE
SORT QUEUE
DYNAMIC INTERACTION
IMAGE FILE
SORT QUEUE
150a
150b
150c
150d

Fig. 11

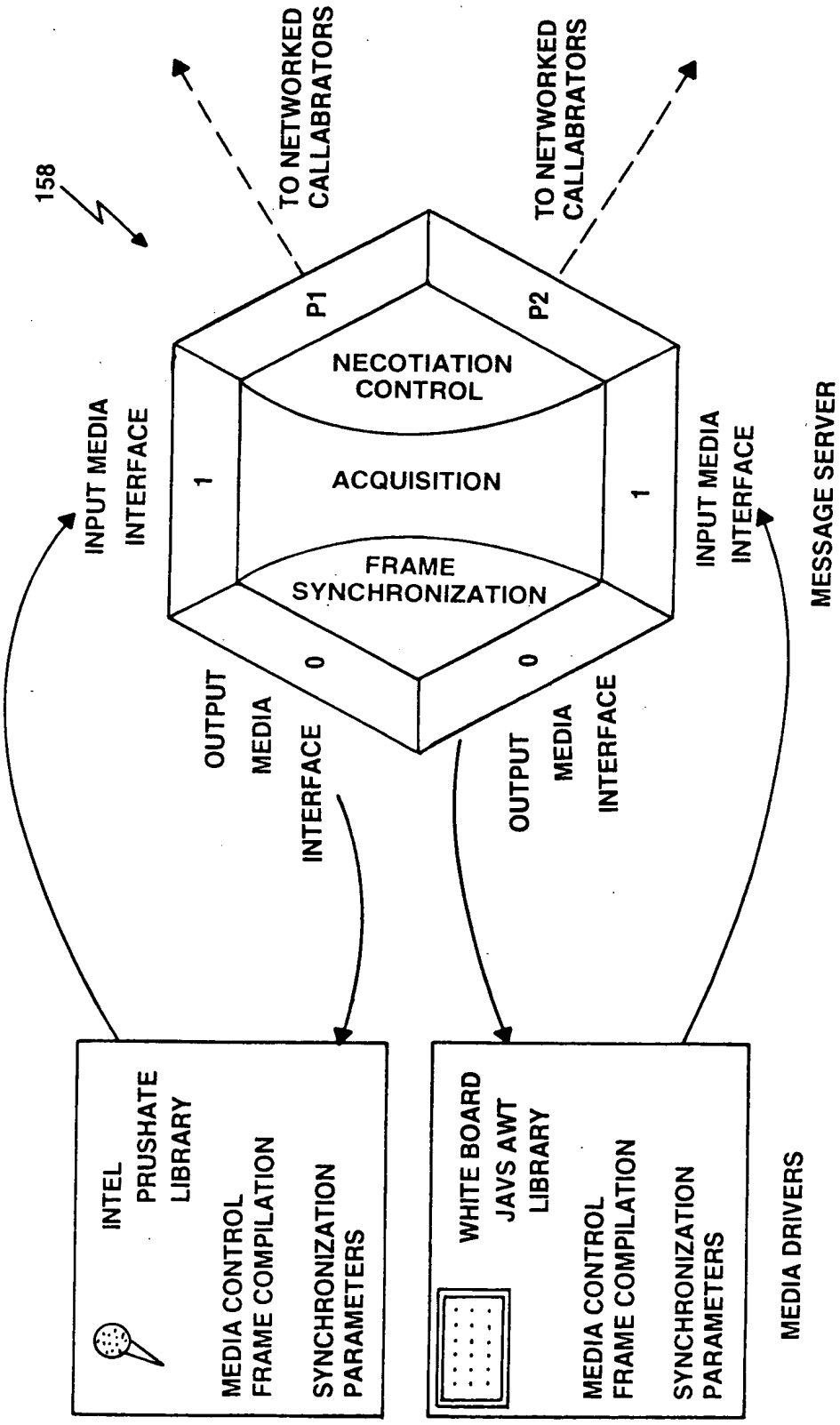
158
TO NETWORKED CALLABRATORS
TO NETWORKED CALLABRATORS
P1
P2
NECOTIATION CONTROL
ACQUISITION
FRAME SYNCHRONIZATION
INPUT MEDIA INTERFACE
1
1
INPUT MEDIA INTERFACE
MESSAGE SERVER
OUTPUT MEDIA INTERFACE
0
0
OUTPUT MEDIA INTERFACE
INTEL PRUSHATE LIBRARY
MEDIA CONTROL FRAME COMPILATION
SYNCHRONIZATION PARAMETERS
WHITE BOARD JAVS AWT LIBRARY
MEDIA CONTROL FRAME COMPILATION
SYNCHRONIZATION PARAMETERS
MEDIA DRIVERS

Fig. 12

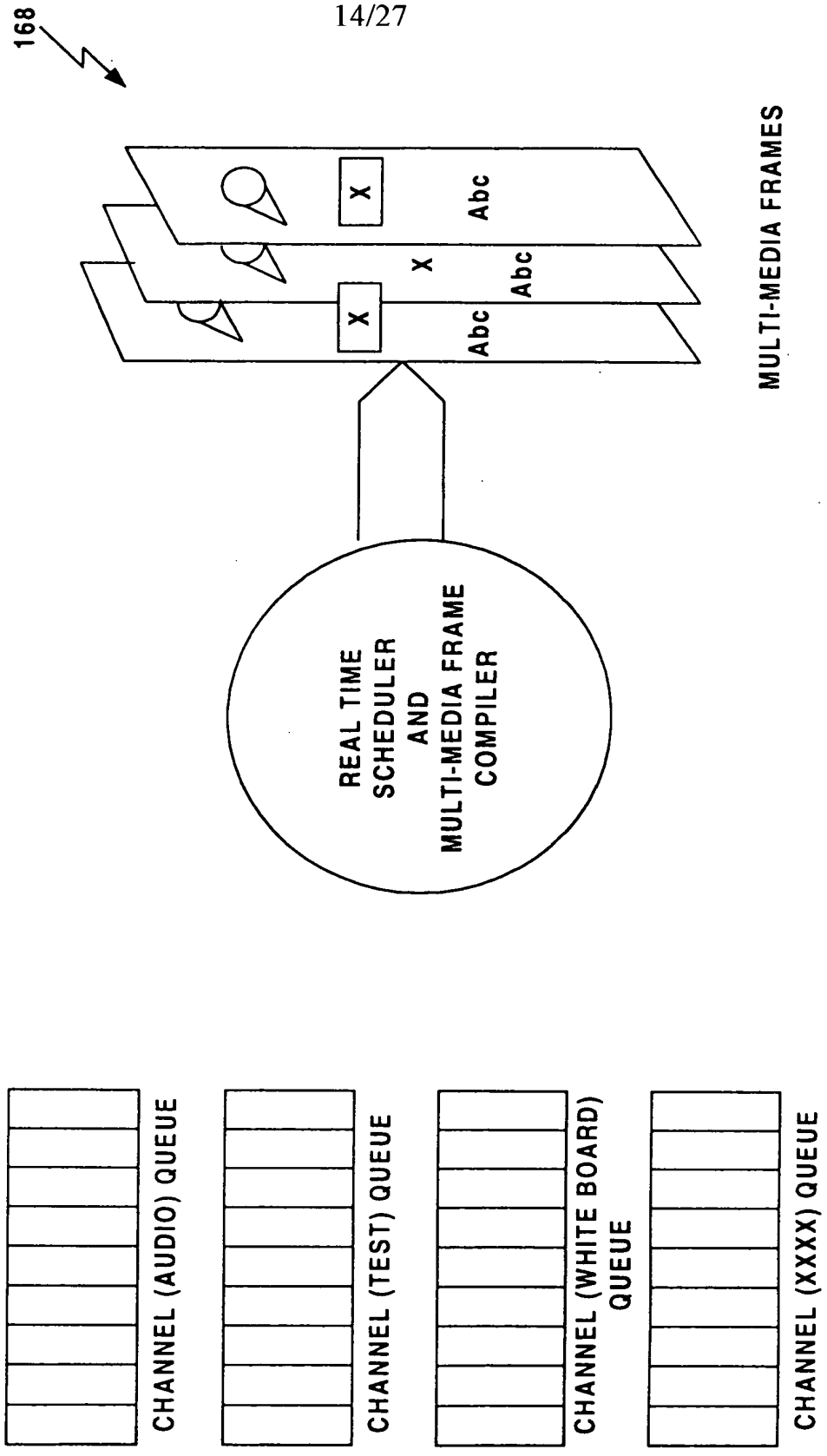
168
X
Abc
X
Abc
X
Abc
MULTI-MEDIA FRAMES
REAL TIME SCHEDULER AND MULTI-MEDIA FRAME COMPILER
CHANNEL (AUDIO) QUEUE
CHANNEL (TEST) QUEUE
CHANNEL (WHITE BOARD) QUEUE
CHANNEL (XXXX) QUEUE
INPUT QUEUES

Fig. 13

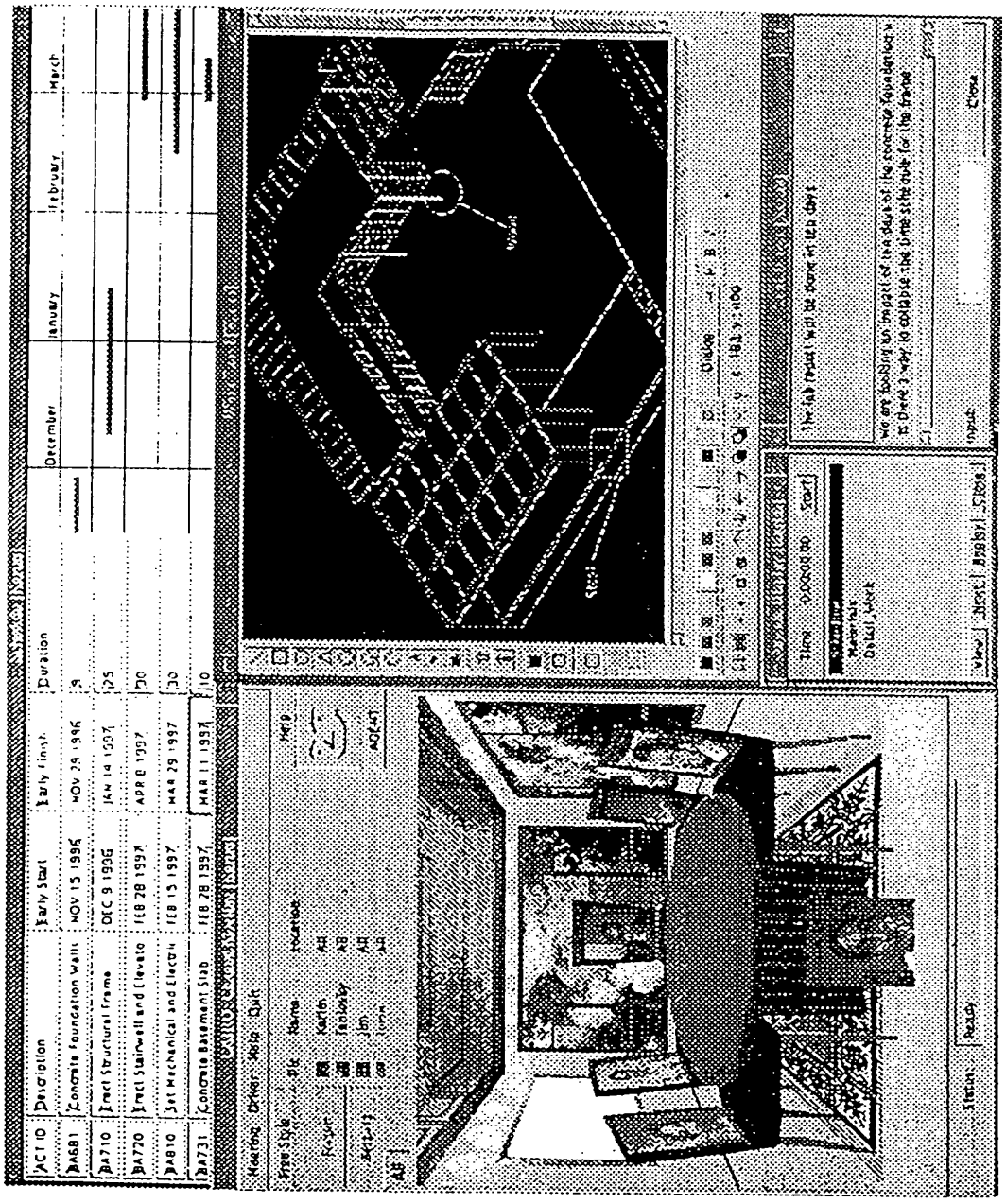

Fig. 14

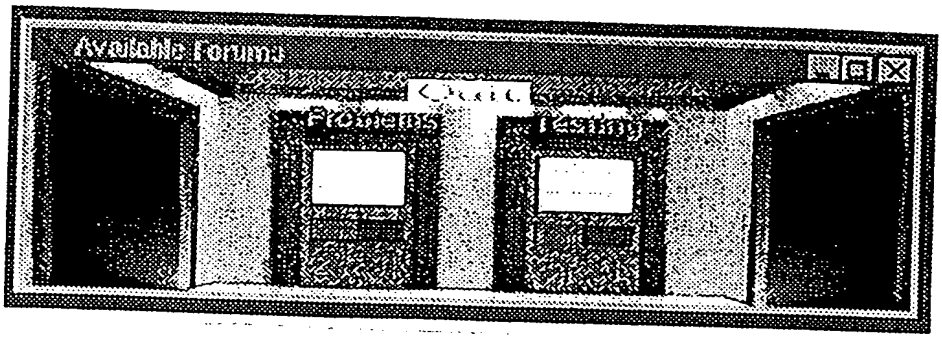

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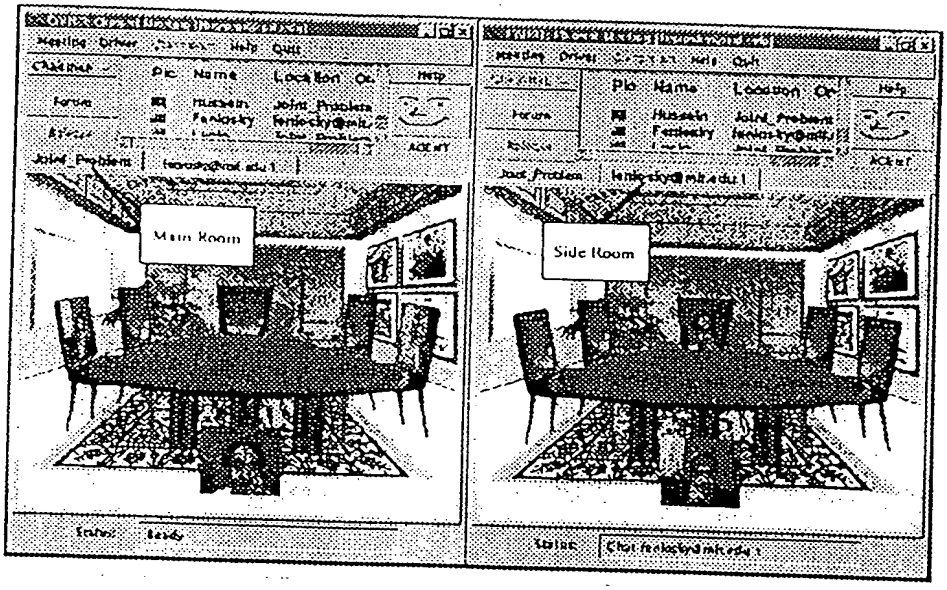
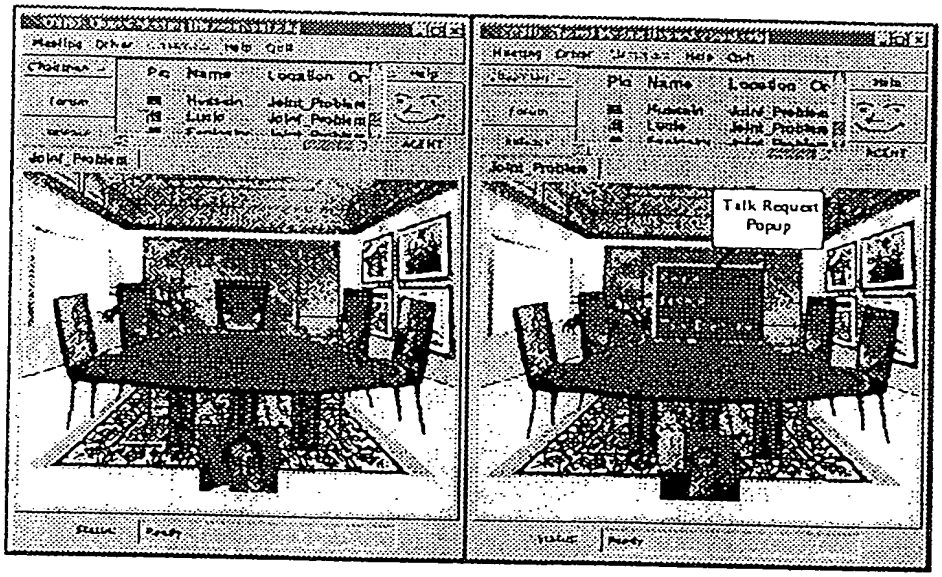
Fig. 15



190

Fig. 16



200

Fig. 17

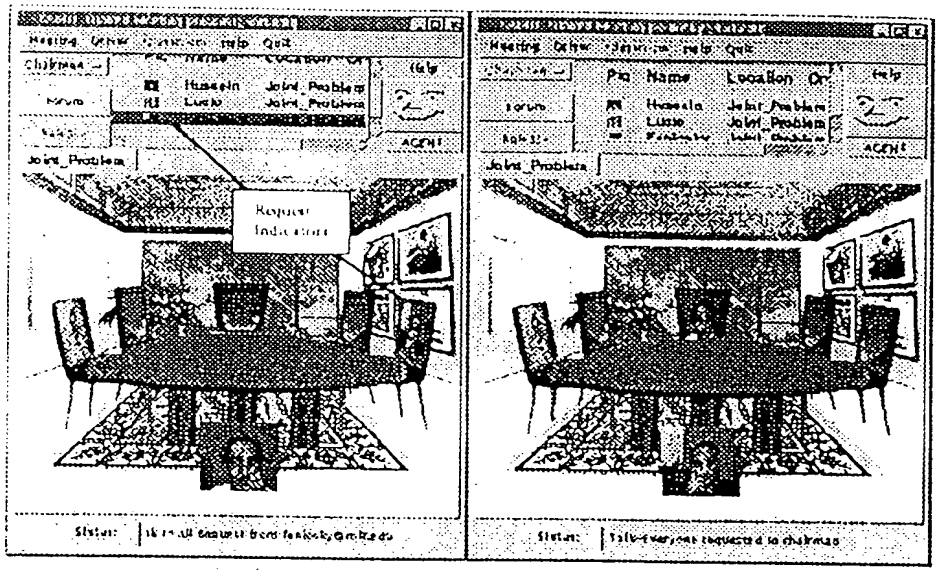


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Fig. 18

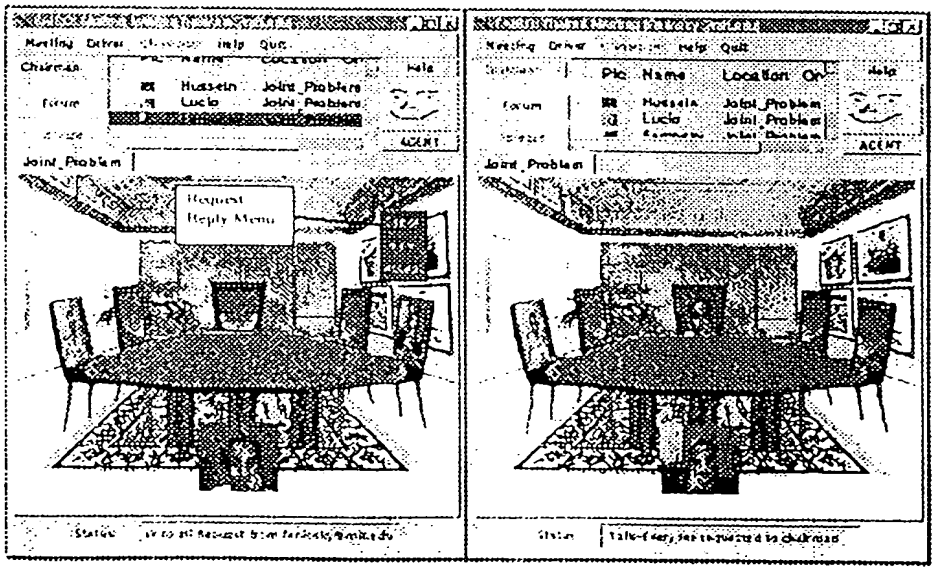

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Fig. 19

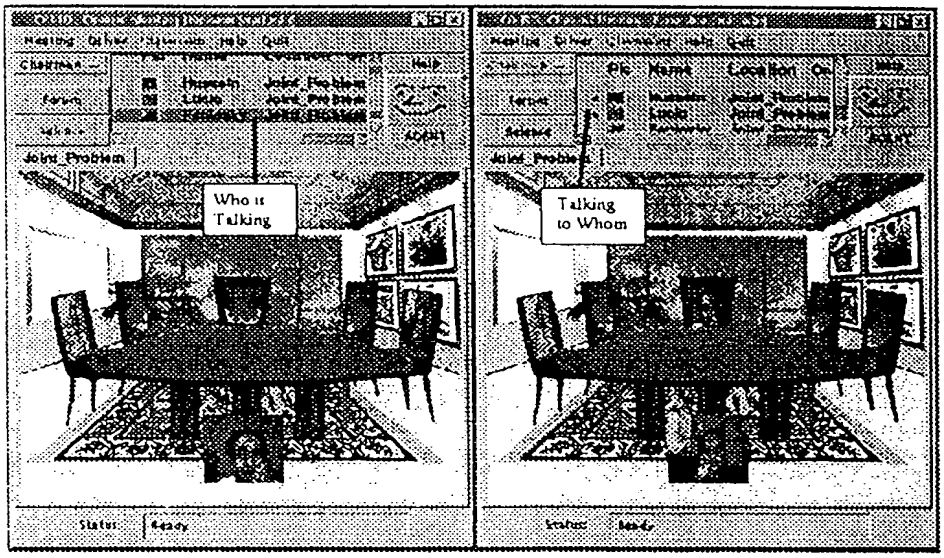


Fig. 19A

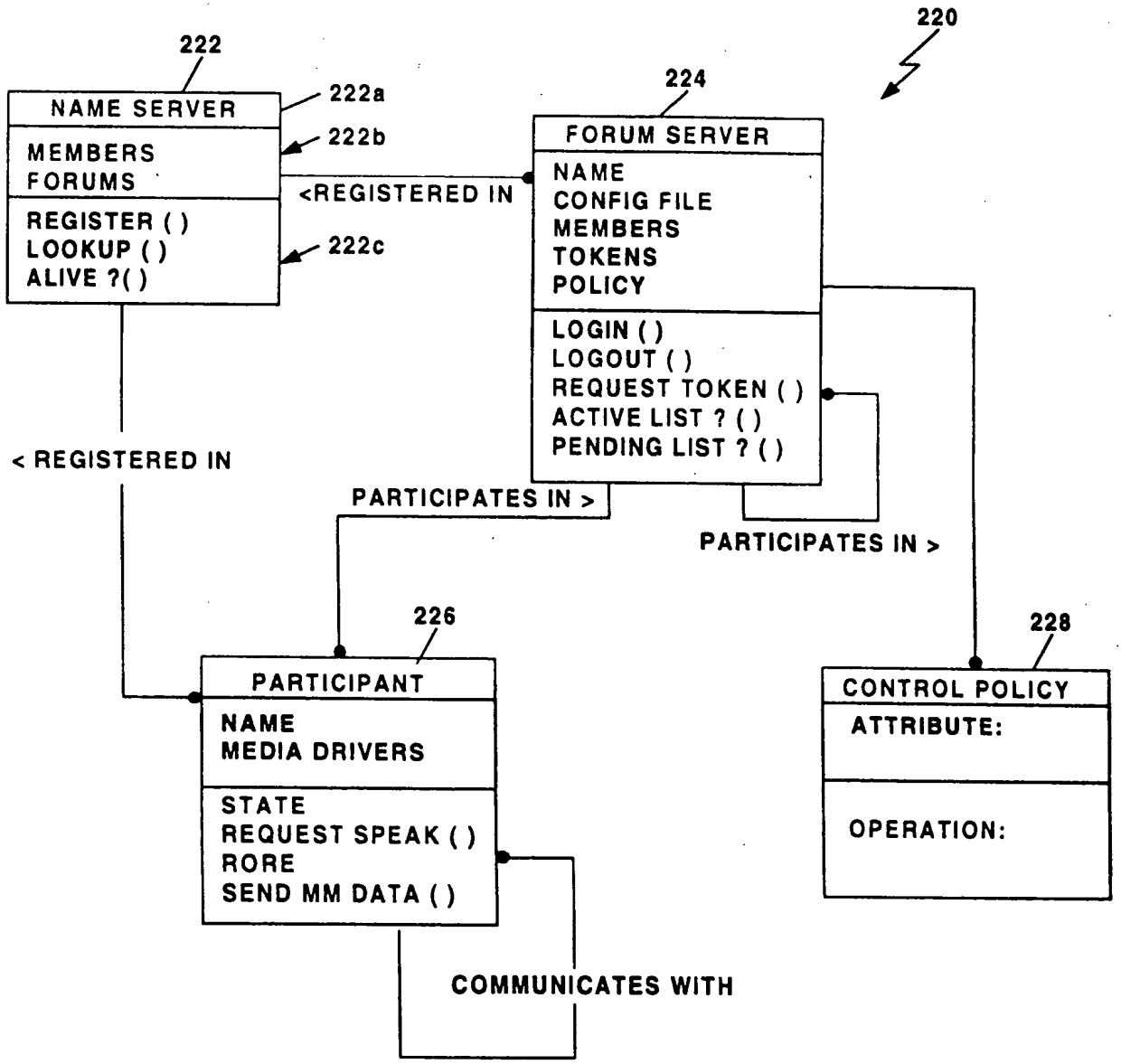

220
222
NAME SERVER
MEMBERS
FORUMS
REGISTER ( )
LOOKUP ( )
ALIVE ?( )
222a
222b
222c
<REGISTERED IN
224
FORUM SERVER
NAME
CONFIG FILE
MEMBERS
TOKENS
POLICY
LOGIN ( )
LOGOUT ( )
REQUEST TOKEN ( )
ACTIVE LIST ? ( )
PENDING LIST ? ( )
< REGISTERED IN
PARTICIPATES IN >
PARTICIPATES IN >
226
PARTICIPANT
NAME
MEDIA DRIVERS
STATE
REQUEST SPEAK ( )
RORE
SEND MM DATA ( )
COMMUNICATES WITH
228
CONTROL POLICY
ATTRIBUTE:
OPERATION:

Fig. 20

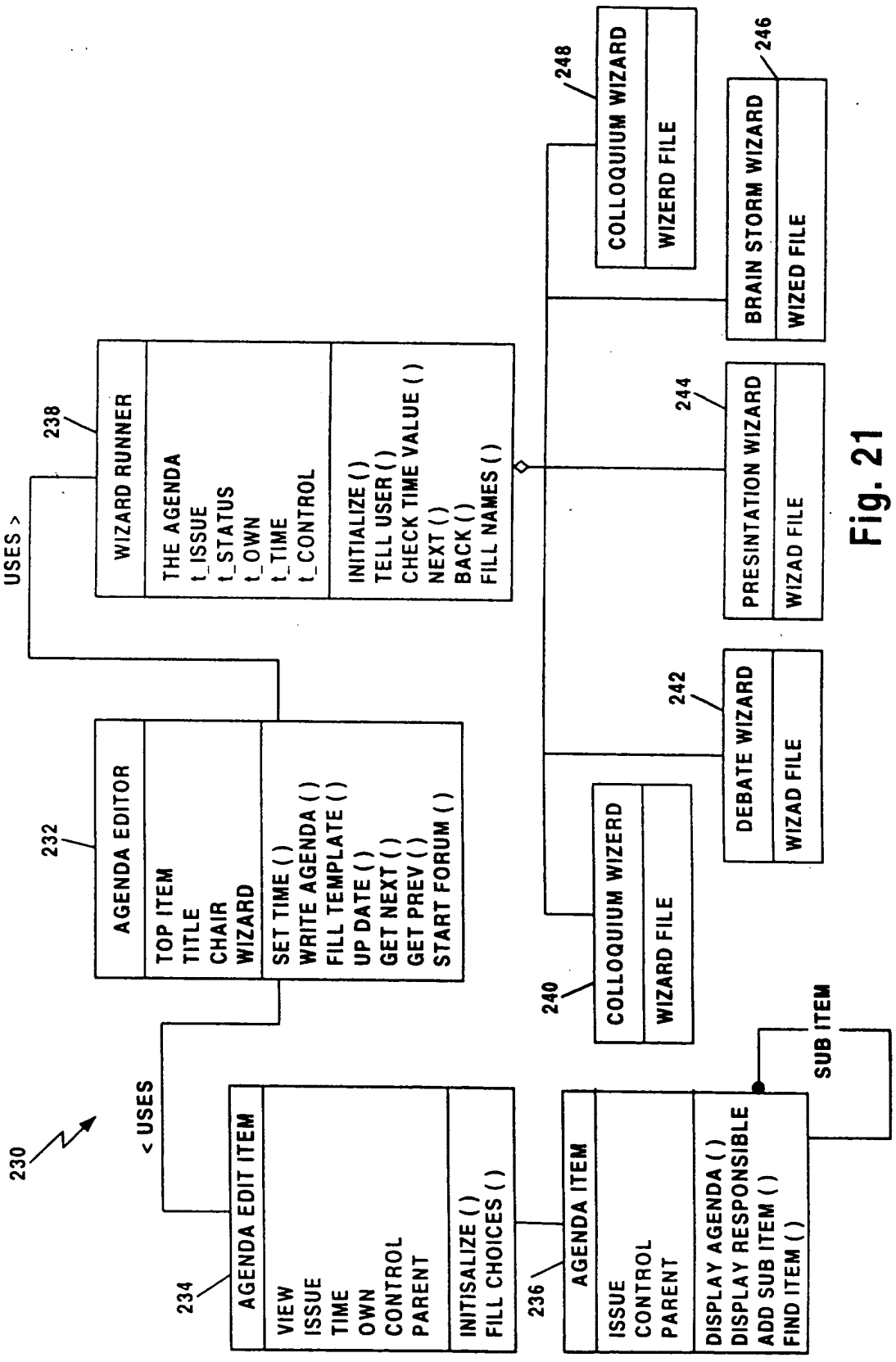

230
< USES
234
AGENDA EDIT ITEM
VIEW
ISSUE
TIME
OWN
CONTROL
PARENT
INITISALIZE ( )
FILL CHOICES ( )
236
AGENDA ITEM
ISSUE
CONTROL
PARENT
DISPLAY AGENDA ( )
DISPLAY RESPONSIBLE
ADD SUB ITEM ( )
FIND ITEM ( )
SUB ITEM
232
AGENDA EDITOR
TOP ITEM
TITLE
CHAIR
WIZARD
SET TIME ( )
WRITE AGENDA ( )
FILL TEMPLATE ( )
UP DATE ( )
GET NEXT ( )
GET PREV ( )
START FORUM ( )
USES >
238
WIZARD RUNNER
THE AGENDA
t_ISSUE
t_STATUS
t_OWN
t_TIME
t_CONTROL
INITIALIZE ( )
TELL USER ( )
CHECK TIME VALUE ( )
NEXT ( )
BACK ( )
FILL NAMES ( )
240
COLLOQUIUM WIZERD
WIZARD FILE
242
DEBATE WIZARD
WIZAD FILE
244
PRESINTATION WIZARD
WIZAD FILE
246
BRAIN STORM WIZARD
WIZED FILE
248
COLLOQUIUM WIZARD
WIZERD FILE

Fig. 21

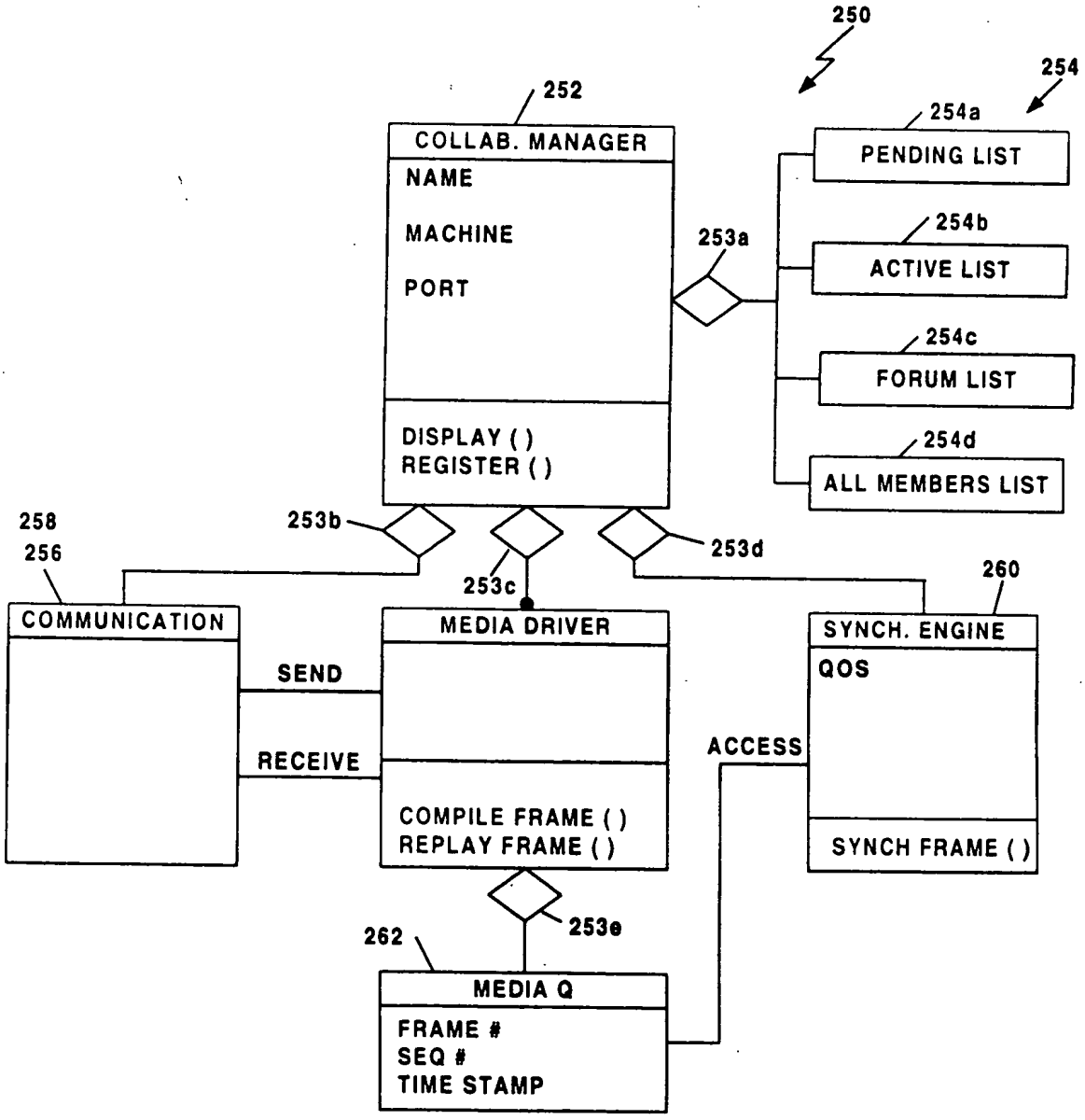

250
252
254
254a
COLLAB. MANAGER
NAME
MACHINE
PORT
DISPLAY ( )
REGISTER ( )
PENDING LIST
254b
ACTIVE LIST
253a
254c
FORUM LIST
254d
ALL MEMBERS LIST
258
256
253b
253c
253d
260
COMMUNICATION
MEDIA DRIVER
SYNCH. ENGINE
QOS
SEND
RECEIVE
ACCESS
COMPILE FRAME ( )
REPLAY FRAME ( )
SYNCH FRAME ( )
253e
262
MEDIA Q
FRAME #
SEQ #
TIME STAMP

Fig. 22

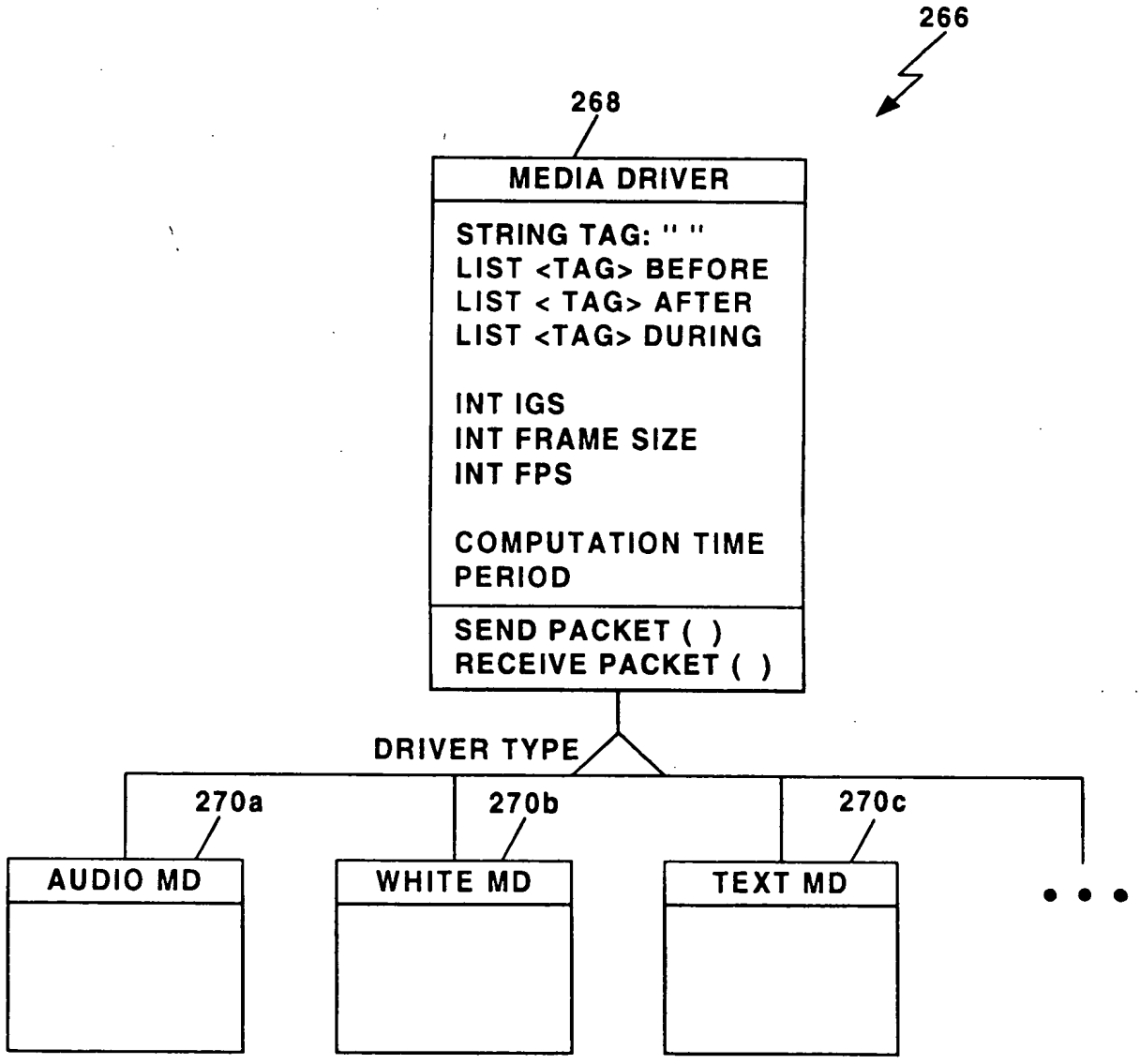
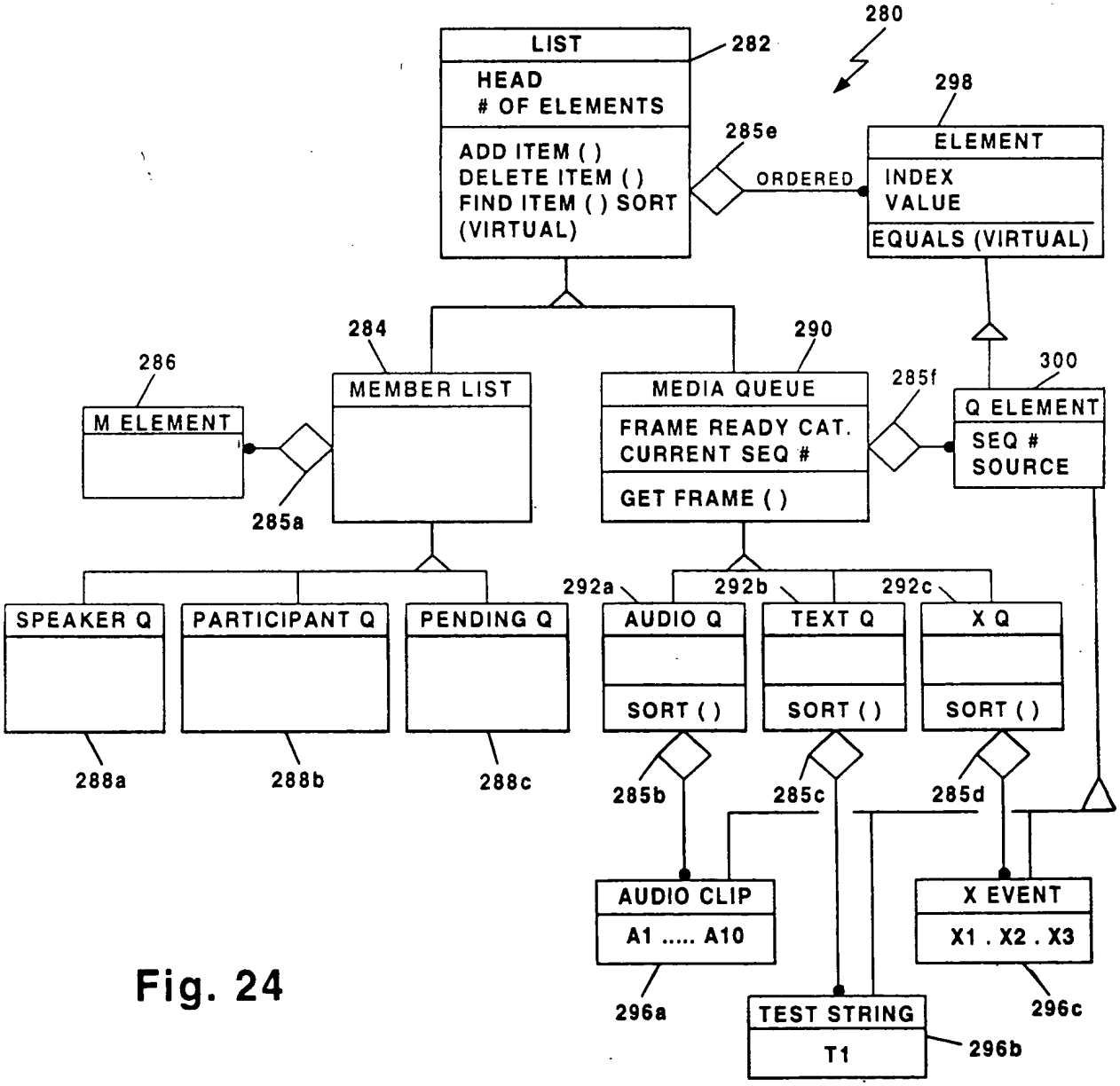

266
268
MEDIA DRIVER
STRING TAG: " "
LIST <TAG> BEFORE
LIST < TAG> AFTER
LIST <TAG> DURING
INT IGS
INT FRAME SIZE
INT FPS
COMPUTATION TIME PERIOD
SEND PACKET ( )
RECEIVE PACKET ( )
DRIVER TYPE
270a
270b
270c
AUDIO MD
WHITE MD
TEXT MD

Fig. 23


280
LIST
282
HEAD
OF ELEMENTS
ADD ITEM ( )
DELETE ITEM ( )
FIND ITEM ( ) SORT
(VIRTUAL)
285e
ORDERED
298
ELEMENT
INDEX
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284
290
286
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285f
300
M ELEMENT
FRAME READY CAT.
CURRENT SEQ #
GET FRAME ( )
Q ELEMENT
SEQ #
SOURCE
285a
292a
292b
292c
SPEAKER Q
PARTICIPANT Q
PENDING Q
AUDIO Q
TEXT Q
X Q
SORT ( )
SORT ( )
SORT ( )
288a
288b
288c
285b
285c
285d
AUDIO CLIP
A1 ..... A10
X EVENT
X1 . X2 . X3
296a
TEST STRING
T1
296b
296c

Fig. 24

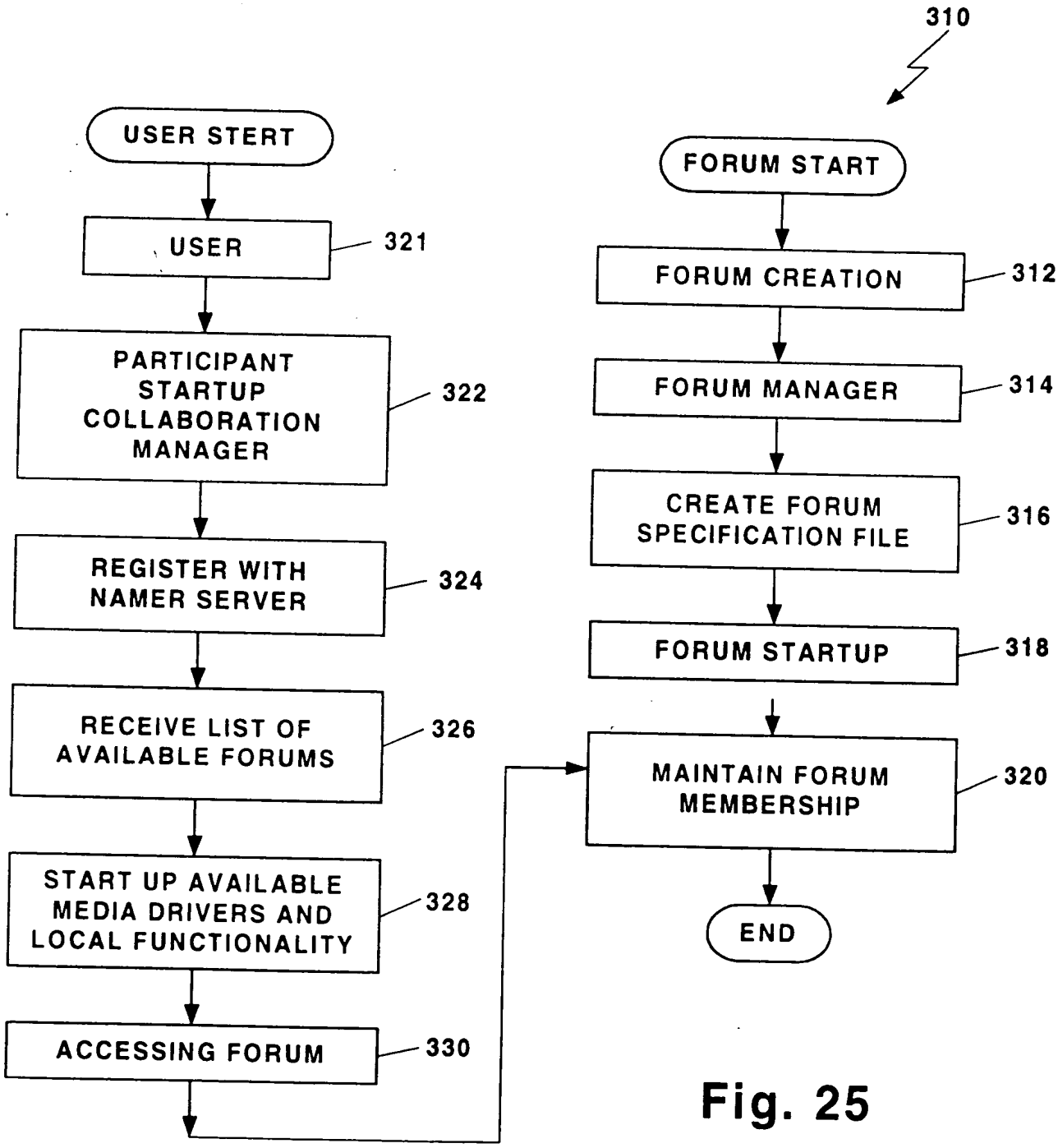
310
USER STERT
USER
321
PARTICIPANT STARTUP COLLABORATION MANAGER
322
REGISTER WITH NAMER SERVER
324
RECEIVE LIST OF AVAILABLE FORUMS
326
START UP AVAILABLE MEDIA DRIVERS AND LOCAL FUNCTIONALITY
328
ACCESSING FORUM
330
FORUM START
FORUM CREATION
312
FORUM MANAGER
314
CREATE FORUM SPECIFICATION FILE
316
FORUM STARTUP
318
MAINTAIN FORUM MEMBERSHIP
320
END

Fig. 25

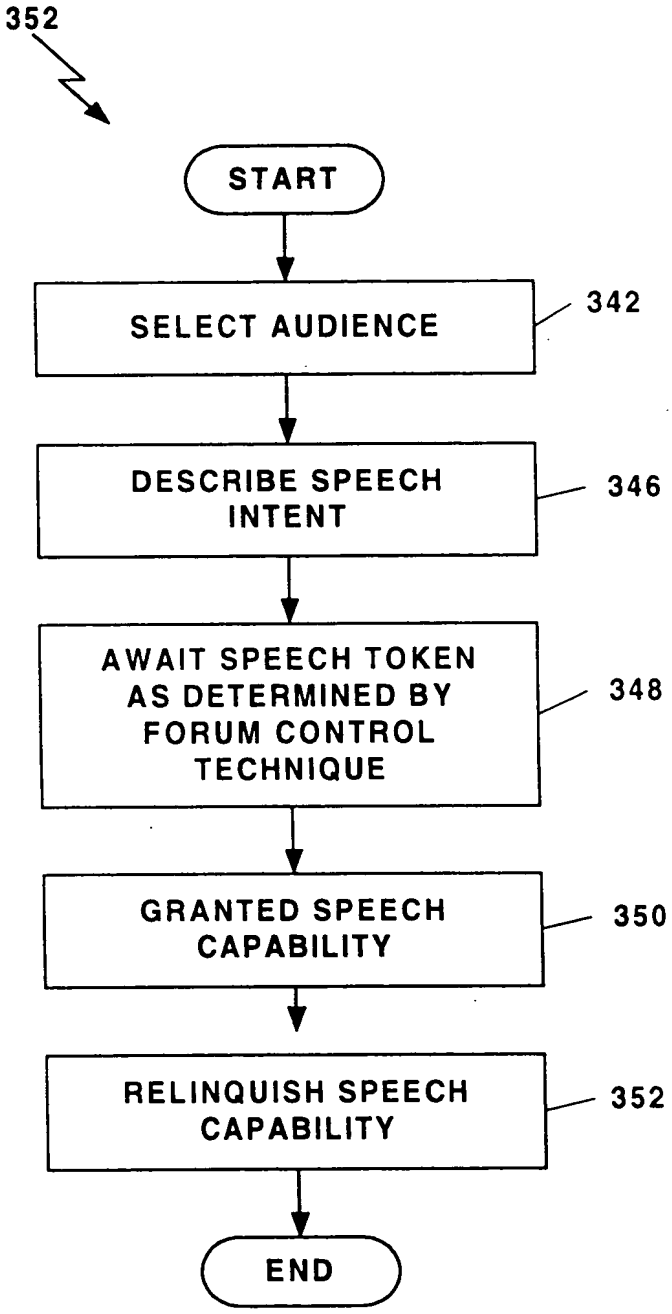
352
START
SELECT AUDIENCE
342
DESCRIBE SPEECH INTENT
346
AWAIT SPEECH TOKEN AS DETERMINED BY FORUM CONTROL TECHNIQUE
348
GRANTED SPEECH CAPABILITY
350
RELINQUISH SPEECH CAPABILITY
352
END

Fig. 26

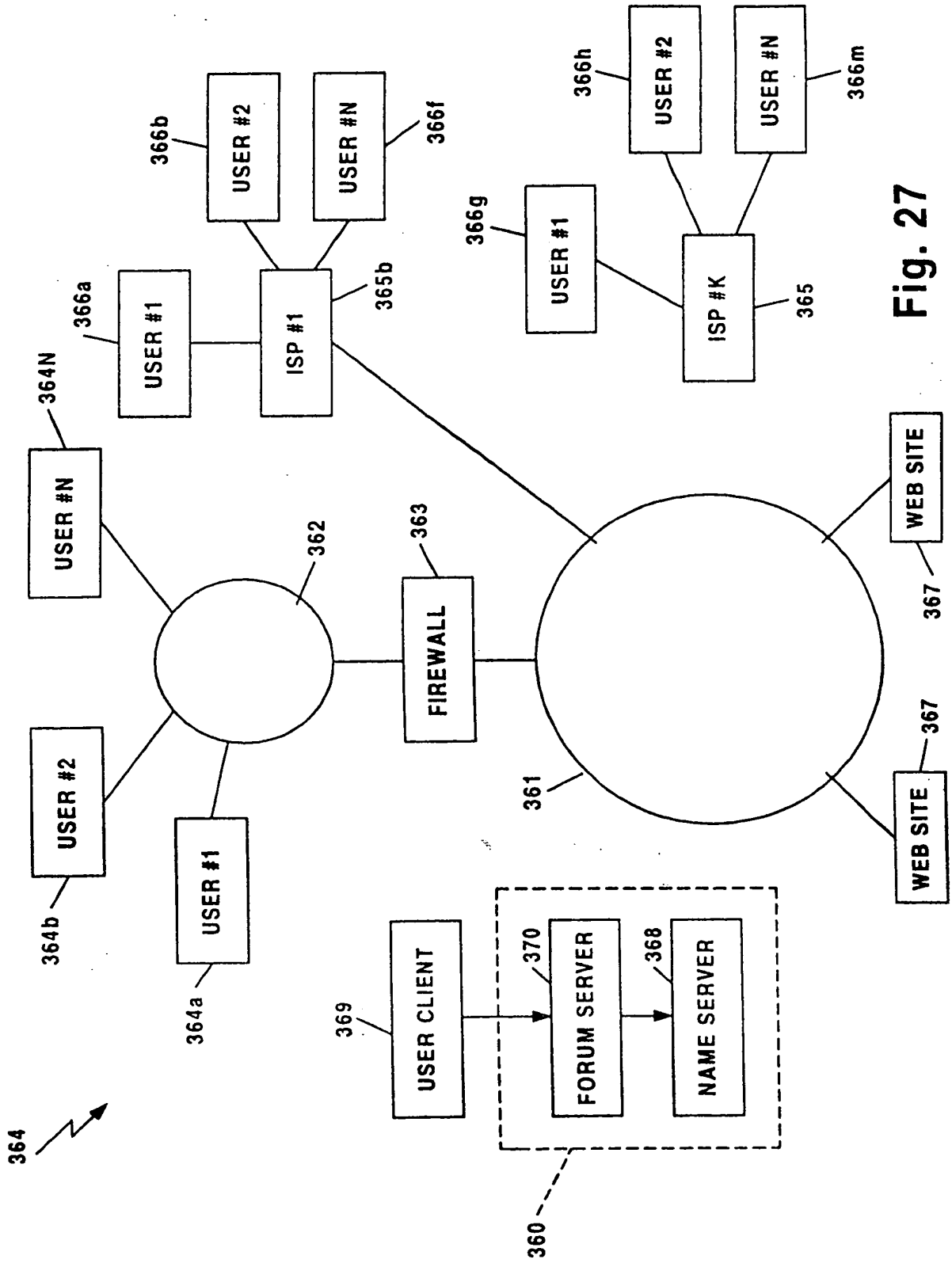
364
USER #1
364a
USER #2
364b
USER #N
364N
362
FIREWALL
363
361
WEB SITE
367
WEB SITE
367
USER #1
366a
ISP #1
365b
USER #2
366b
USER #N
366f
USER #1
366g
ISP #K
365
USER #2
366h
USER #N
366m
USER CLIENT
369
FORUM SERVER
370
NAME SERVER
368
360

Fig. 27

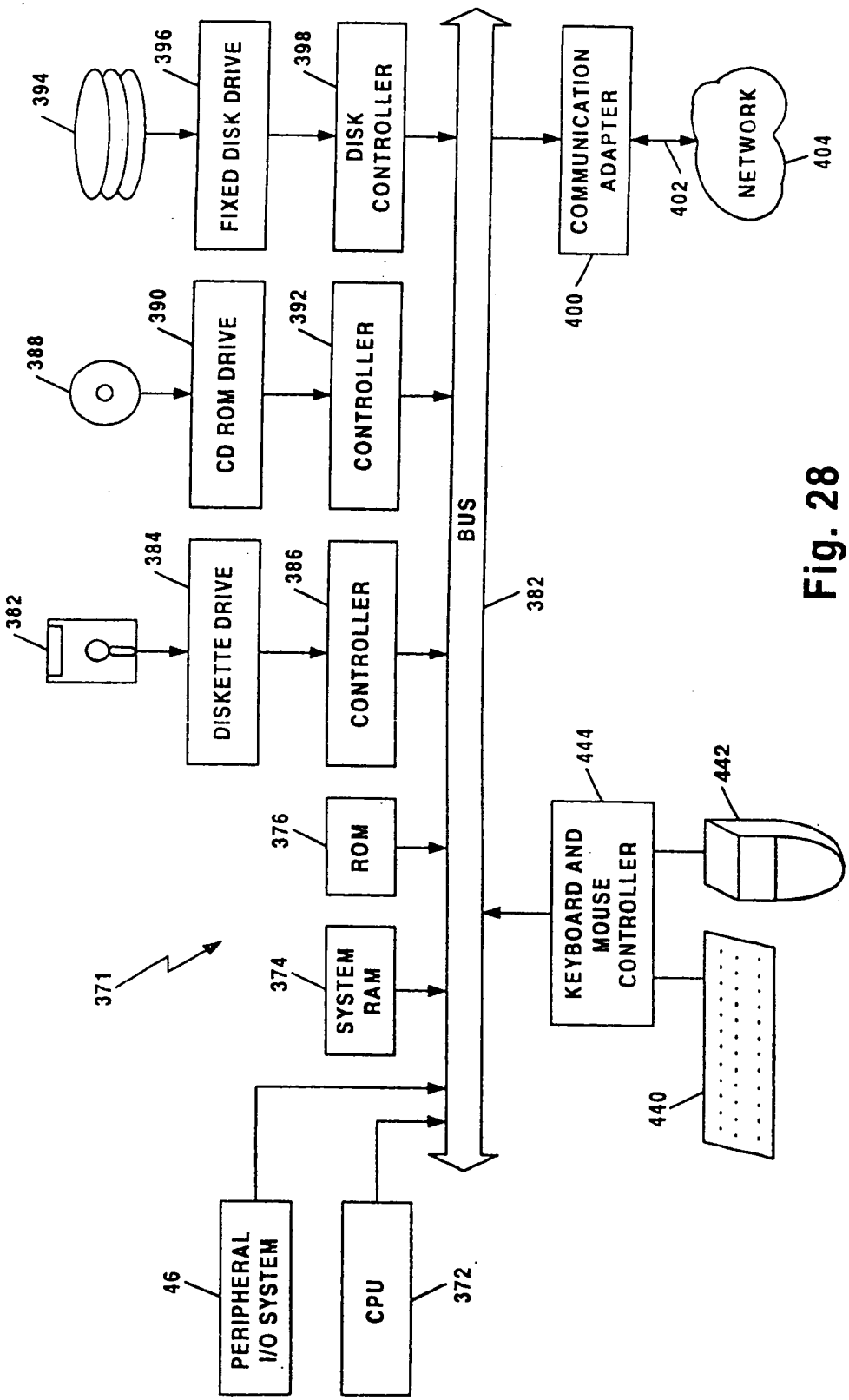
PERIPHERAL I/O SYSTEM
46
CPU
372
371
SYSTEM RAM
374
ROM
376
DISKETTE DRIVE
384
382
CONTROLLER
386
CD ROM DRIVE
390
388
CONTROLLER
392
FIXED DISK DRIVE
396
394
DISK CONTROLLER
398
BUS
382
KEYBOARD AND MOUSE CONTROLLER
444
442
440
COMMUNICATION ADAPTER
400
402
NETWORK
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Fig. 28

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